8-8

# Field Inspection Reports:

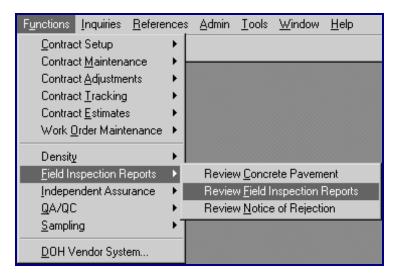
## Review Structural Steel

### **Objective**

Access for Structural Steel Using the windows in the Structural Steel sub-module

#### **Review Structural Steel**

**Step 1:** Choose **Field Inspection Reports** from the **Functions** menu in HiCAMS.



**Figure 1 - Access to Review Field Inspection Reports** 

Step 2: To access a NEW Structural Steel Report, select a valid *Contract*, click the *Report Name* field, and select **Structural** Steel.

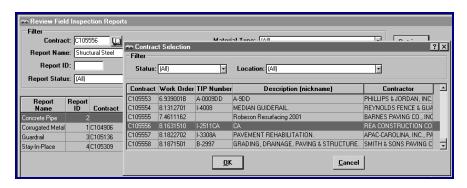


Figure 2 - Selecting a valid Contract number for Structural Steel

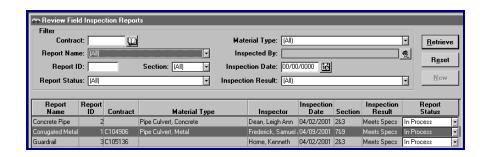




Figure 3 - Selecting the Report Name for a NEW Structure Steel Report

**Step 3:** Click the **New** button, and the General tab for Structural Steel Report is displayed:

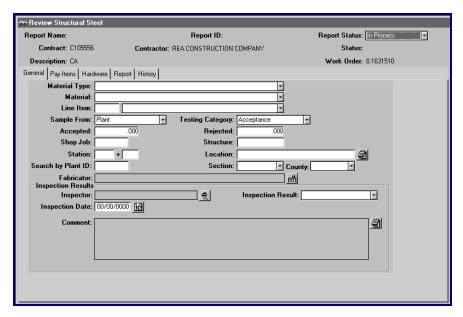


Figure 4 - New Review Structural Steel Window

**Step 4:** To access an *existing* Structural Steel Report, follow Step 1 above and double-click the desired report from the list

displayed or click the **Details** button after highlighting the desired report.

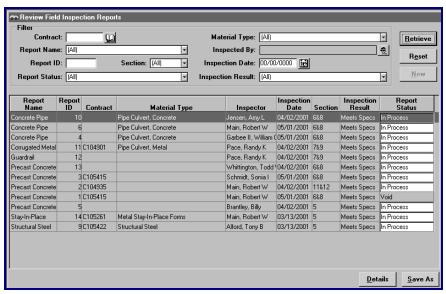


Figure 5 - Access to an EXISTING Structural Steel Report

The **Structural Steel Report Details Window** is displayed as shown in the example below:

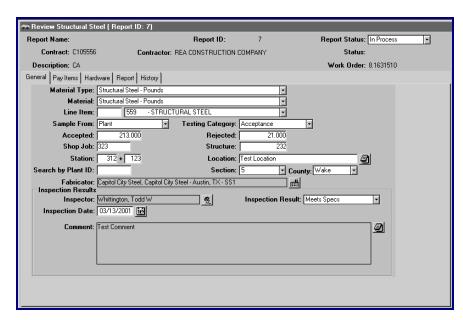


Figure 6 - Initial Review Structural Steel Details (General Tab Window)

**Note:** To further aid in the retrieval of an EXISTING report, there are filtering functions available in HiCAMS. These filter functions are especially helpful when choosing from a very large listing of

reports. See Field Inspection Reports: Overview - Retrieval Tips for all Field Inspection Reports for details using these functions.

#### General Tab - Review Structural Steel

The valid Materials Type available for selection on the Structural Steel window is Structural Steel (English, Metric.) There is one Material Type per Report with one corresponding Material. As in the Guardrail window, Pay Items are separate from the Hardware Materials.

All data is completed by using the various drop-down menus and data entry fields on the **General** tab:

- ◆ The **Testing Category** for Structural Steel reports is required, and will default to "Acceptance".
- ◆ The **Sample From** category for Structural Steel reports is required and will default to "Plant".
- ◆ The user is required to enter the Contract Number. When the Contract Number is entered, the Contractor Name, Contract Status, Contract Description, County, and primary Work Order number (Project Number) will be defaulted on the window.
- ◆ The **Fabricator** is the Company that assembles the material. One or more Producer/Suppliers may provide material for the assembly but HiCAMS will only keep track of the Fabricator.
- ◆ The **Shop Job** Number is used by the Fabricator to indicate internal work order tracking.
- ◆ The **Location** information for the bridge can be entered and consists of a station from as well as a text location field.

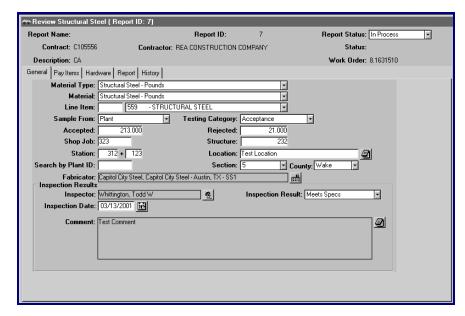


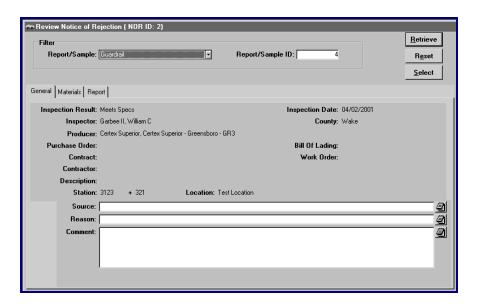
Figure 7 - Structural Steel General Tab Window

The **Structure** number is used to identify the location from which this sample was taken. The first two digits of a structure number are used to represent the county in which the structure is located.

The Accumulated Weight is tracked in the **Accepted** quantity field. Structural Steel will seldom if ever have a **Rejected** quantity. Any imperfections are corrected prior to the material being placed on the project. However, a Rejected field has been provided in the event that this data is available and needs to be stored.

#### **Notice of Rejection**

The Notice of Rejection field is activated when any rejected amounts are recorded on the Pay Items Tab Window. When the Notice of Rejection button is clicked, the following window appears for the material:



#### Pay Items Tab - Review Structural Steel

The **Pay Items Tab** Window contains the following information:

- ◆ Description
- ◆ Piece
- Cover Plates
- ◆ Camber
- ◆ Weld Size
- ♦ Shear Stud
- **♦** Connection Dimension
- **♦** Magnetic Particle
- ◆ Girder Information Heat Number and Components.
- **Step 1:** To insert a new **Pay Item** row into this tab window, click the **Insert** button and enter the Pay Item data.
- **Step 2:** To delete a Pay Item row, select the appropriate row and click the **Erase** button:

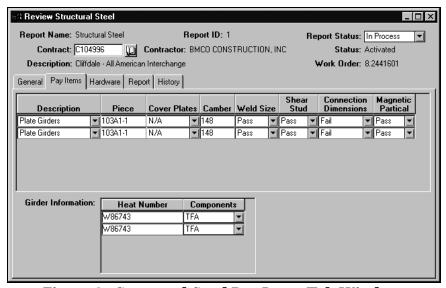


Figure 8 - Structural Steel Pay Items Tab Window

- **Step 3:** To select the **Description**, click inside the *Description* field and all applicable selections are displayed. Click on the desired Description using the drop-down menu choices.
- **Step 4:** To enter the **Piece** number, select the field and enter the Piece number.

**Tip:** The Piece number can contain up to 10 alphanumeric characters. (Example: 103A1-1)

**Step 5:** To select **Cover Plates** criteria, click inside the field and make the appropriate choice using the drop-down menu.



**Figure 9 - Cover Plates Drop-Down Menu** 

**Step 6:** To enter the **Camber** information, select the *Camber* field and enter a number, Pass, Fail, or N/A into the field.



Figure 10 - Camber Entry Field/Drop-Down Menu

- Step 7: To select the **Weld Size, Shear Stud, Connection Dimensions, Magnetic Particle** information, click each field, use each drop-down menu and select Pass, Fail, or N/A. (This is similar to the Cover Plates drop-down menu.)
- **Step 8:** To insert a new **Girder Information** row (lower portion of the window), click the **Insert** button and enter the data.
- **Step 9:** To delete a **Girder Information** row, select the appropriate row and click the **Erase** button:

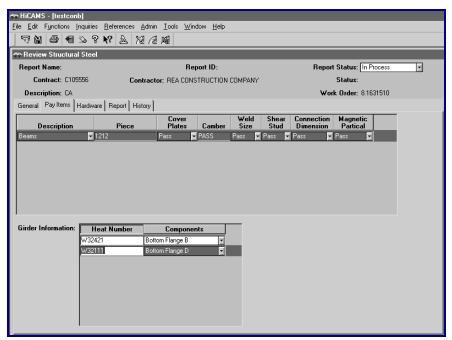


Figure 11 - Structural Steel Pay Items Tab Window/Girder Information Area

**Step 10:** To enter **Girder Information** - **Heat Number**, select the *Heat Number* field and enter the number.

**Note:** There can be one or more heat numbers for each piece.

**Step 11:** To enter **Girder Information** - **Components**, click the *Components* field, use the drop-down menu and select from the following choices:

TFA thru TFE	Top Flange A through Top Flange E
WFA thru WFE	Web Flange A through Web Flange E
BFA thru BFE	Bottom Flange A through Bottom Flange E

**Note:** Users are required to indicate the Heat Number(s) for a Piece as well as the component that the Heat number corresponds to. See example screen below.

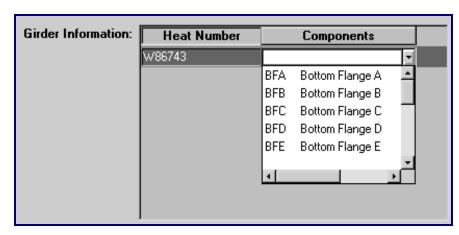


Figure 12 - Girder Information/Components Drop-Down Menu

**Step 12:** To save the record, click the **Save** button.

**Note:** The saved record captures all data that has been entered and the fields in all tab windows become protected and cannot be changed. The fields become editable for data entry after the Report's status is changed and the record is re-saved by an authorized user.

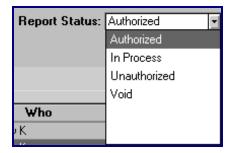


Figure 13 - Report Status Drop-Down Menu

**Note:** Saving a record can be performed at any point. If the record save is interrupted at any point, it is usually as a result of incomplete data entry. There are various messages that the system may display based upon what is required to be entered in order to save the record. The following is one such example message.



Figure 14 - Typical Advisory Message, Required Information for Structural Steel

To rectify the saving error, click the **OK** button, enter the required data mentioned in the message, and click the **Save** button.

#### Hardware Tab - Review Structural Steel

The **Hardware** tab displays *Description, Piece, Quantity, Dimension*, and *Pass/Fail* information for Structural Steel.

**Step 1:** To enter **Description** information, select the field and select from the drop-down menu. See example below:

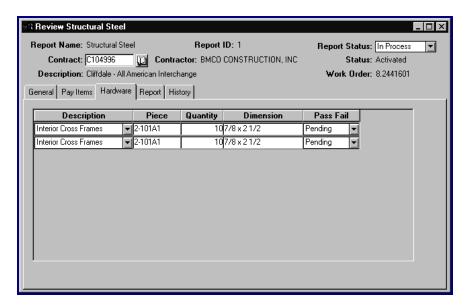


Figure 15 - Structural Steel Hardware Tab Window

**Step 2:** To enter the **Piece** number, select the field and enter the number. The Piece number can contain up to 60 alphanumeric characters. (Example: 2-101A1)



**Figure 16 - Structural Steel Hardware Tab Window** 

- **Step 3:** To enter a **Quantity**, select the field and enter the numeric quantity of hardware.
- **Step 4:** To enter a **Dimension**, dick inside the field and enter the dimension measurements of the hardware piece.
- **Step 5:** To enter the **Pass/Fail** criteria, select the field, use the drop-down menu and choose the criteria.

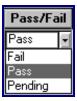


Figure 17 - Pass/Fail/Pending Drop-Down Menu

**Note:** The Pass/Fail indicator for Hardware items also contains "Pending" as a possible selection. "Pending" is used to indicate that the results of the test have not yet been provided.

#### **Report Tab - Review Structural Steel**

The Review Structural Steel report is under the **Report** tab.

**Step 1:** To view the entire report, use the scroll bars or **Print Preview**.

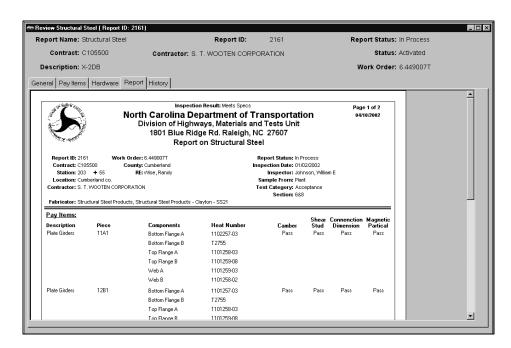
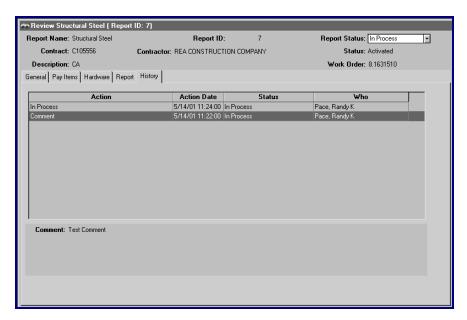


Figure 18 - Structural Steel Report Tab Window

#### **History Tab - Review Structural Steel**

Any actions that have been performed for an individual Structural Steel report are listed located under the **History Tab** window. The Tab includes the *Action, Action Date/Time, Status*, and *Who* performed the action. This window also contains historical comments that may have been entered.

**Step 1:** To view the individual comments for each action, click the action to see the comment that has been associated with it. See example screen below:



**Figure 19 - Structural Steel History Tab Window** 

#### REPORT OF SHOP INSPECTION OF STRUCTURAL STEEL ROLLED SECTIONS PROCESS FLOW

